Optics and Lasers in Engineering **21** (1994) 331–332
© 1994 Elsevier Science Limited
Printed in Northern Ireland. All rights reserved

ELSEVIER

CONTENTS OF VOLUME 21

Numbers 1–2

Special Issue on Phase Shifting Projection Grid Techniques

1 Guest Editorial

3 Phase Shifting Applied to Non-sinusoidal Intensity Distribution—An Error Simulation
A. ASUNDI & C. S. CHAN (Hong Kong)

31 Phase Shifted Projection Grid—Effect of Pitch and Profile
A. ASUNDI & C. S. CHAN (Hong Kong)

49 A Phase Unwrapping Technique for Object Relief Determination
F. BRÉMAND (France)

61 One-Step Phase Shift 3-D Surface Profilometry with Grating Projection
R. GU, T. YOSHIZAWA & Y. OTANI (Japan)

77 Implementation and Use of an Automated Projection Moiré Experimental Set-Up
J. F. CARDENAS-GARCIA, S. ZHENG & F. Z. SHEN (USA)

99 The Future of 3-D Range Image Measurement Using Binary-Encoded Pattern Projection
A. J. E. GOODALL, D. R. BURTON & M. J. LALOR (UK)

111 Book Review

113 Announcement

115 Calendar

Number 3

117 Genetic and Entropy Methods for Laser Process Prediction
S. Y. LIM & C. R. CHATWIN (UK)

133 Completely Automated Photoelastic Fringe Analysis
J. CARAZO-ALVAREZ, S. J. HAAKE & E. A. PATTERSON (UK)

151 Young's Fringes Analysis with a Computer Image-Processing System
K. MACHIDA, M. KIKUCHI, Y. SAWA (Japan) & F.-P. CHIANG (USA)

165 Performance of an Optical Stand-Off Control System for Laser Materials Processing
H. A. ABDULLAH, C. R. CHATWIN & M.-Y. HUANG (UK)

Research Note

181 Microlens Array in Surface Curvature Inspection of Cold-Rolled Aluminium
K.-E. PEIPONEN, R. SILVENNOINEN, P. SAVANDER (Finland) &
T. ASAKURA (Japan)

185 Calendar

Number 4

187 3-D Object Profilometry Based on Direct Fringe Displacement Analysis
ZHOU JIANQIN & HU ZHENGFENG (People's Republic of China)

199 A Review of Phase Unwrapping Techniques in Fringe Analysis
T. R. JUDGE & P. J. BRYANSTON-CROSS (UK)

241 Real-time Interval Technique for Electronic Shearing Speckle Pattern Interferometry
YUWEN QIN & JIABIN DAI (People's Republic of China)

249 Book Reviews

253 Announcement

255 Calendar

Number 5

257 Fabrication and Testing of High Quality Small Germanium Plano-Convex Lens
R.-S. CHANG, T.-C. CHERN, C. S. LIN & Y. L. LAY (Taiwan)

273 A Knowledge-Based Adaptive Control Environment for an Industrial Laser Cutting System
M. Y. HUANG & C. R. CHATWIN (UK)

297 Noise Robustness of Tuneable Photo-Refractive Filters
R. K. WANG, C. R. CHATWIN & M. Y. HUANG (UK)

307 Highly Sensitive Optical Sensor System for Blood Leakage Detection
M. UEDA, K. ISHIKAWA, C. JIE, S. MIZUNO & Y. TOUMA (Japan)

317 Real Time Analysis of Diffraction Patterns, at Extremely Low Light Levels
C. CIAMBERLINI & G. LONGOBARDI (Italy)

327 Announcement

329 Calendar